

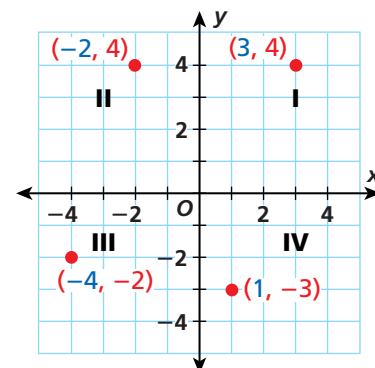
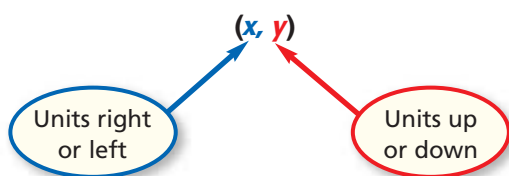
Section Overview

Graphing on a Coordinate Plane

Lesson 4-1

Why? When a coordinate plane includes integers, the horizontal and vertical axes divide the plane into four quadrants.

Each point on a coordinate plane is identified by an **ordered pair** of numbers: an x -coordinate and a y -coordinate.



Tables and Graphs

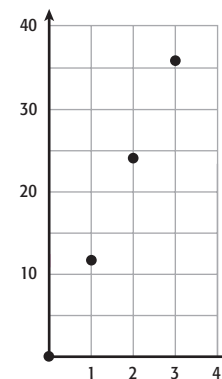
Lesson 4-2

Why? You can use information in a table or graph to help you see the relationship between quantities in a formula more clearly.

The formula $i = 12f$ gives the number of i inches in f feet. You can view the relationship between the variables in a table or graph.

Feet, f	Inches, i
0	0
1	12
2	24
3	36

Ordered Pairs
 (0, 0)
 (1, 12)
 (2, 24)
 (3, 36)



Interpreting Graphs

Lesson 4-3

Why? Interpreting the situations that graphed relationships represents prepares students for understanding and graphing functions.

The heat was turned on in the morning.
 The temperature **increased** until it reached a comfortable level.
 The temperature stayed **constant** throughout the workday.
 Finally, the heat was turned off and the temperature **dropped**.

